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| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|------------------|--|------------|----------------------|---------------------|------------------|
| 10/532,513 | 04/2 | 5/2005 | Carlos Martins | RFR0062 | 7073 |
| Valeo Inc | 7590 | 10/19/2007 | | EXAM | INER |
| Intellectual Pro | operty Depa | artment | TAPOLCAI, WILLIAM E | | |
| | 4100 North Atlantic Boulevard Auburn Hills, MI 48326 | | | ART UNIT | PAPER NUMBER |
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| | | | | 10/19/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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| | Application No. | Applicant(s) |
| | 10/532,513 | MARTINS ET AL. |
| Office Action Summary | Examiner | Art Unit |
| | William E. Tapolcai | 3744 |
| The MAILING DATE of this communication ap Period for Reply | opears on the cover sheet w | ith the correspondence address |
| A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNI .136(a). In no event, however, may a d will apply and will expire SIX (6) MOI ate, cause the application to become A | CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133). |
| Status | | |
| 1) Responsive to communication(s) filed on 26. | July 2007. | |
| • | is action is non-final. | |
| 3) Since this application is in condition for allow closed in accordance with the practice under | | |
| Disposition of Claims | | |
| 4) ⊠ Claim(s) 15 and 17-32 is/are pending in the a 4a) Of the above claim(s) is/are withdr 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 15 and 17-32 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and | awn from consideration. | |
| Application Papers | | |
| 9) The specification is objected to by the Examir | and the second s | |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ ac | | |
| Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre | | |
| 11) The oath or declaration is objected to by the I | • | • |
| Priority under 35 U.S.C. § 119 | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list | nts have been received. nts have been received in A iority documents have beer au (PCT Rule 17.2(a)). | Application No n received in this National Stage |
| Attachment(s) 1) Notice of References Cited (PTO-892) | 4) Interview | Summary (PTO-413) |
| 2) Notice of References Cited (FTO-092) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | Paper No | (s)/Mail Date Informal Patent Application |

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 15, 17-23, 25-29, 31, and 32 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,340,053 to Wu et al. Wu et al discloses the claimed heat exchanger comprising a plurality of stacked plates. The plates have separate internal flow channels for first and second fluids. The recitation of the heat exchanger being a motor vehicle condenser with the refrigerating fluid as one of the fluids used is considered to be a mere statement of intended use which is not supported by the claimed structure. Furthermore, the heat exchanger of Wu et al is capable of being used as a condenser in a refrigeration system.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al in view of U.S. Patent No. 5,628,206 to Baba. Wu et al discloses the claimed invention except for the bottle built between the first and second series of plates. Baba teaches a condenser comprising a series of stacked plates and a bottle or reservoir 33 adjacent the plates. Thus, it would be obvious to provide Wu et al with a bottle or reservoir, in

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view of Baba, for the purpose of providing an expansion container for the heat exchanger. The location of the bottle or reservoir with respect to the plates is considered to be a matter of obvious choice to one of ordinary skill in the art. No criticality or unexpected results are seen or have been disclosed for the claimed location of the bottle or reservoir. Furthermore, one of ordinary skill in the art would have expected Applicant's invention to work equally as well as with the device of Baba.

- 5. Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al. Wu et al discloses the claimed invention except for the compressor and evaporator. The compressor, condenser, and evaporator are extremely well known components of a refrigeration system, and thus to use a refrigeration system incorporating the heat exchanger of Wu et al as the condenser would be an obvious expedient to one of ordinary skill in the refrigeration art.
- 6. Applicant's arguments filed July 26, 2007 have been fully considered but they are not persuasive. Firstly, the Examiner has not been able to find on file a copy of Applicant's specification with paragraphs numbered. Thus, it is difficult to accurately ascertain which paragraph Applicant refers to as paragraph 0011 in his remarks.
- 7. Wu et al is considered to clearly disclose the claimed limitation of the main section plates being assembled in groups or sub groups of plates such that they form at least two fluid passes. Since a group can consist of as little as two plates, Wu et al clearly discloses in Fig.1 at least two plates that are stacked together. Furthermore, Wu et al clearly discloses that there are two fluid passes in the heat exchanger.

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8. Applicant has not demonstrated why the heat exchanger in Wu et al would not be capable of being used as a condenser in a refrigeration system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William E. Tapolcai whose telephone number is (571) 272-4814. The examiner can normally be reached on Mon. - Thurs., 6:30 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl J. Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

William E. Tapolcai Primary Examiner Art Unit 3744

wet August 1, 2007